

Title (en)
Organic light emitting display device

Title (de)
Organische lichtemittierende Anzeigevorrichtung

Title (fr)
Dispositif d'affichage électroluminescent organique

Publication
EP 2874143 A1 20150520 (EN)

Application
EP 14192723 A 20141111

Priority
KR 20130138837 A 20131115

Abstract (en)
An organic light emitting display pixel (P) comprises a driving transistor (DT) for driving an organic light emitting diode (OLED). A first transistor (T1) is controlled by a scan signal (GL) and connected between a reference voltage line (RVL) and a first node (N1) of the driving transistor. A second transistor (T2) is also controlled by the same scan signal (GL) and is connected between a data line (DL) and a second node (N2) of the driving transistor. A storage capacitor (Cst) comprises a first plate with an improved conductive characteristic and connected to the semiconductor layer of the driving transistor and the semiconductor layer of the first transistor. A second plate of the storage capacitor is positioned on the first plate, and connected to the semiconductor layer of the second transistor and a gate electrode of the driving transistor. A pixel electrode of the organic light emitting diode, positioned on the second plate, is connected to the first plate through a contact hole.

IPC 8 full level
G09G 3/32 (2006.01); **H01L 27/32** (2006.01)

CPC (source: EP KR US)
G09G 3/32 (2013.01 - KR); **G09G 3/3258** (2013.01 - EP US); **H01L 27/1225** (2013.01 - US); **H10K 50/80** (2023.02 - US); **H10K 50/84** (2023.02 - US); **H10K 59/1213** (2023.02 - US); **H10K 59/1216** (2023.02 - EP US); **H10K 59/123** (2023.02 - EP US); **H10K 59/13** (2023.02 - US); **H10K 59/131** (2023.02 - US); **G09G 2300/0465** (2013.01 - EP US); **G09G 2300/0842** (2013.01 - EP US); **G09G 2320/0233** (2013.01 - EP US)

Citation (search report)

- [X] US 2003189535 A1 20031009 - MATSUMOTO SHOICHIRO [JP], et al
- [A] US 2003107534 A1 20030612 - KOYAMA JUN [JP], et al
- [I] US 2008142827 A1 20080619 - CHOI SANG-MOO [KR], et al
- [A] US 2010007651 A1 20100114 - KIM YANG-WAN [KR]
- [A] US 2007115226 A1 20070524 - JUNG KWANG-CHUL [KR], et al
- [A] US 2006248420 A1 20061102 - JEONG JIN T [KR]

Cited by
CN108022946A; EP4128358A4; EP3316309B1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2874143 A1 20150520; EP 2874143 B1 20190410; CN 104658472 A 20150527; CN 104658472 B 20171205; KR 102049793 B1 20200108; KR 20150056177 A 20150526; TW 201521002 A 20150601; TW I567716 B 20170121; US 10157973 B2 20181218; US 2015137099 A1 20150521; US 2016247872 A1 20160825; US 9356081 B2 20160531

DOCDB simple family (application)
EP 14192723 A 20141111; CN 201410647585 A 20141114; KR 20130138837 A 20131115; TW 103139651 A 20141114; US 201414537740 A 20141110; US 201615145768 A 20160503